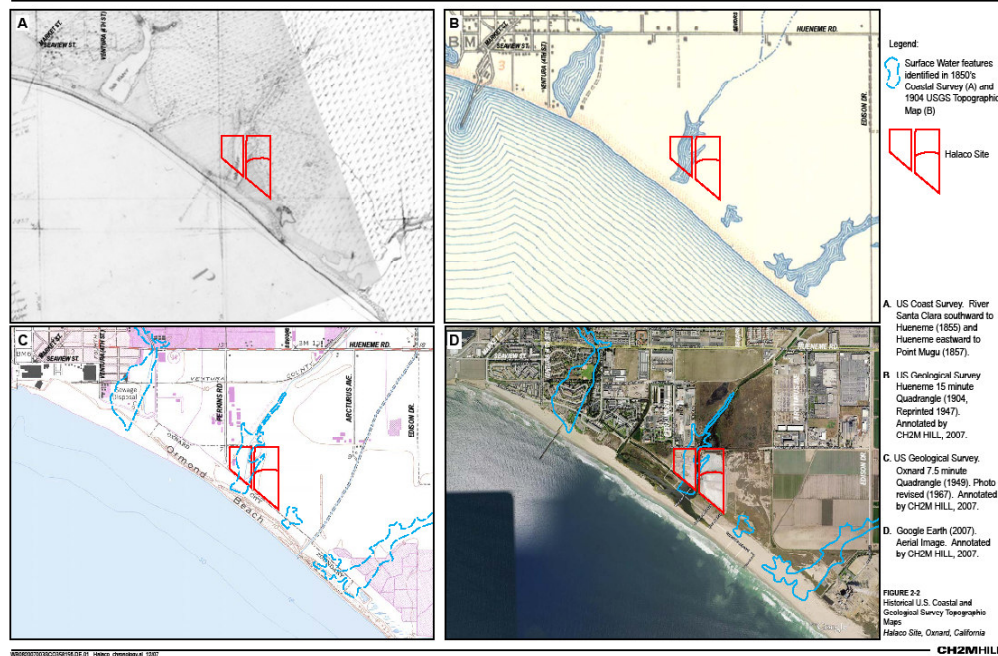


Halaco Engineering Co. Superfund Site



Wayne Praskins
USEPA Superfund Program
March 2009



Halaco: EPA Update

- Getting to Cleanup
- Community Involvement
- Site Security and Stormwater Controls
- Next Steps





Halaco Site Background

- Halaco processed scrap aluminum, magnesium, and zinc, 1965-2004
- In 2006-2007, EPA:
 - re-graded the waste pile
 - placed 6,000 feet of fencing and 141,000 yds³ of erosion control matting
- Halaco Site added to the Superfund List in Sept 2007







EPA Halaco Investigation and Cleanup

Remedial Investigation



Feasibility Study



Proposed Cleanup Plan



Cleanup



Halaco Investigation: What We've Learned

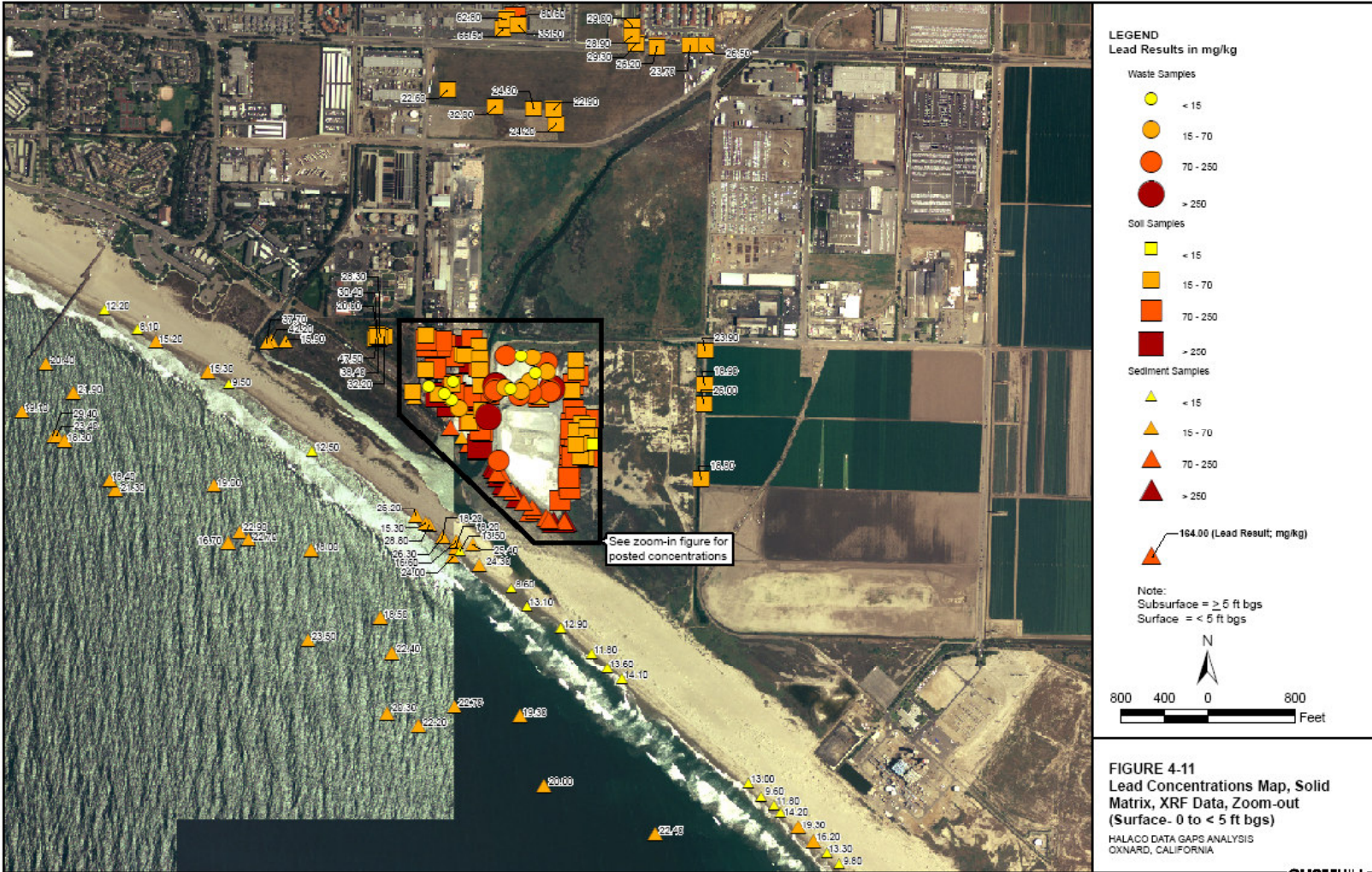
INFORMATION	SOURCE
Descriptions of Halaco's operations	EPA information requests
Halaco metal production records	Ventura County Air Pollution Control District
Hazardous material inventories and locations of fuel and oil storage tanks	Oxnard Fire Dept.
Magnesium-thorium use	Halaco's records and CA Dept. of Public Health
Waste disposal practices	Historical aerial photos, Ventura County DA's office
Surface water and groundwater test results	CA Regional Water Quality Control Board
Hazardous waste test results	CA Dept. of Toxic Substances Control

Halaco Investigation: What We've Learned

Extent of Contamination

- Waste has elevated levels of metals and (in some locations) radioactive thorium
- Most waste remains on the Halaco property
- Some wastes in Nature Conservancy property, Oxnard Industrial Drain sediments, groundwater





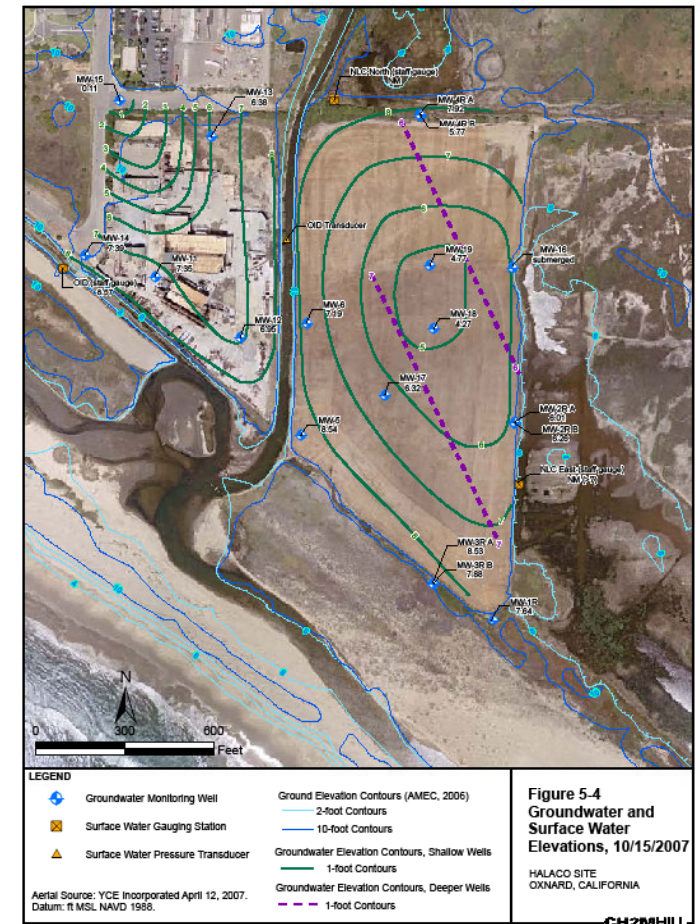
\\2\pand\proj\04\ENVIRONMENTAL\PROFILES\55\HALACOG\MAPFILES\SDOC_20074-1\LEAD_XRF_SURFACE.MXD 4-11LEAD_XRF_SURFACE

CH2MHILL

Halaco Investigation: What We've Learned

Surface Water and Groundwater

- Analyzed 1980-2003 test data and monitored existing well network
- Gained a basic understanding of extent of contamination and surface water and groundwater movement
- Report completed Dec. 2008



Halaco Investigation: What We've Learned

Health Risk

- EPA completed “screening-level” assessment of health risks posed by contaminated soils, sediments, and water
- Ruled out contamination in several offsite areas
- EPA report completed Dec. 2008
- CA DPH report available this week





Health Risk Drives Cleanup

- What chemicals are present?
- Where and at what levels?
- How much contact could people (or wildlife) have with the waste or with contaminated soil, water, or air?
- How toxic is each chemical?

Halaco Investigation: What We Don't Know

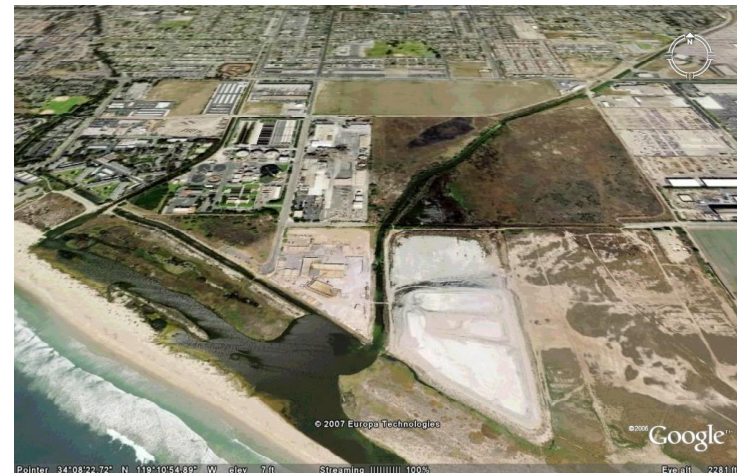
- Has contaminated groundwater traveled offsite?
- Are buried wastes still reactive and capable of generating ammonia and other gases?
- Are buried wastes in contact with and contaminating groundwater?
- Are the wastes contaminated with dioxins or other organic contaminants?
- Is there residual contamination from the fuels and oils that Halaco stored and used onsite?
- How much Halaco waste material is there in the bottom sediments of the Oxnard Industrial Drain and Ormond Beach lagoon?





EPA Halaco Investigation: Next Steps

- Groundwater study - *completed*
- Screening-level risk assessment report - *completed*
- Testing Plan – *seeking public comment*
- Testing – *this year*
- Begin Feasibility Study – *late 09/early 10*





Halaco: EPA Community Involvement Efforts

- Interviewed 27 community members and completed plan
- Periodic bilingual fact sheets
- Frequent website updates
- Presentations at public meetings





Halaco Site Security

- Larger bilingual signs
- Prompt repairs to gates, fencing
- Working with owners on building demolition
- Assistance from Oxnard Police Dept
- Periodic inspections
- Better locks





Halaco Stormwater Controls

141,000 yds² of matting

One mile of silt curtain



Questions?

- Wayne Praskins, EPA Project Manager
praskins.wayne@epa.gov
(415) 972-3181
- Alejandro Diaz, EPA Community Involvement Coordinator
diaz.alejandro@epa.gov
(415) 972-3242 or (800) 231-3075
- Laurie Williams, EPA Asst. Regional Counsel
williams.laurie@epa.gov
(415) 972-3867

Visit: <http://www.epa.gov/region9/halaco>

